



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20004

OFFICE OF
PREVENTION, PESTICIDE AND
TOXIC SUBSTANCES

January 18, 2006

MEMORANDUM

SUBJECT: 1,2-Benzenedicarboxaldehyde (ortho-phthalaldehyde, OPA, UcarcideTM P200 Antimicrobial) Rainbow Trout 6(a)(2) Toxicity Data (D325167)

TO: Mark Hartman, Branch Chief
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FROM: Srinivas Gowda, M.A., Biologist
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THRU: Norm Cook, Branch Chief
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The Dow Chemical Company has submitted toxicity study with the Rainbow trout (*Oncorhynchus mykiss*) under FIFRA Section 6(a)(2). The study was conducted using the technical grade of OPA, the active ingredient in the manufacturing use product UcarcideTM P200 Antimicrobial, used to formulate bactericides and materials preservatives. The results of the submitted tests are summarized below:

Ortho-Phthalaldehyde: Ecotoxicological Evaluation of Acute Toxicity to Rainbow Trout (*Oncorhynchus mykiss*). Guideline 850.1075/old 72-1 (MRID 457026-01): The 96-hour LC50 for OPA was 0.02 mg ai/L (20 ppb ai) (very highly toxic). The NOAEC was 0.013 mg ai/L (13 ppb ai). The study was classified as supplemental due to the loss of chemical over time and the subsequent use of time-weighted average concentrations for determining the endpoints, which may have caused an underestimation of the actual toxicity level of this chemical. However, since the test demonstrates very high toxicity to fish, repeat testing is not required for the current use of Ucarcide P200 for formulating materials preservatives.

If you have any questions on the above, please contact Srinivas Gowda (703-308-6354).

Sign-off Date : 01/18/06
DP Barcode No. : D325167